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MIAMI, FL 33	143		ART UNIT	PAPER NUMBER	
			2135		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/712,665	KHANGAONKAR ET AL.	
Office Action Summary	Examiner	Art Unit	
	Suman Debnath	2135	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 21	November 2007.		
2a)⊠ This action is FINAL . 2b) ☐ T	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under the practice under the practice.	·	•	
Disposition of Claims			
4) Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are with definition 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and complete to the subject to restriction and complete the subject to restrict the subject to restriction and complete the subject to restrict the subject to restriction and complete the subject to restrict the subject the subject to restrict the subject to restrict the subject t	rawn from consideration. d/or election requirement.	•	
9) The specification is objected to by the Exami		I Was Englished	
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corr			
11) The oath or declaration is objected to by the	•		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of	nformal Patent Application	

DETAILED ACTION

- 1. Claims 1-22 are pending in this application.
- 2. Claims 1, 5, 11 and 17-18 are presently amended.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

Claim Rejections - 35 USC § 103

- 4. Claims 1-4 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (Patent No.: US 6,604,104 B1) and further in view of Feldbaum (Patent No.: US 6,446,206 B1) and Grovit et al. (Pub. No.: US 2003/0074310 A1) (hereinafter "Grovit").
- 5. As to claim 1, Smith discloses a system for integrating applications in different enterprises separated by at least one firewall, the system comprising: an agent for receiving high level business data from a source application (column 7, lines 5-40 and column 1, lines 23-31); an encryption engine for encrypting the high level business data to produce encrypted business data (FIG. 6, column 1, lines 23-31 and column 10, lines 15-35, "....connections between the source and target systems may be evaluated and made secure using known encryption .."); a queue manager for receiving the high level business data and for storing the high level business data for delivery to a target server (column 7, lines 5-26); and an output for transmitting the encrypted high level business data to the server and running the target application (column 10, lines 15-35), wherein

the system and the target server are separated by the at least one firewall (column 10, lines 5-25, "Firewalls and other physical access restriction mechanisms may be used between networks and nodes..").

Smith doesn't explicitly disclose that the queue manager receives encrypted data; the agent acting as a spoke in a hub and spoke integrating system and the server acting as a hub in another hub and spoke integrating system. However, Feldbaum discloses that the queue manager receives encrypted data (column 7, lines 10-31 and column 8, lines 29-60).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Smith as taught by Feldbaum in order to increase the confidentiality and integrity of data that transmit over the public network.

Though hub and spoke integration system architecture is well known in the art, neither Smith nor Feldbaum explicitly disclose the agent acting as a spoke in a hub and spoke integrating system and the server acting as a hub in another hub and spoke integrating system. However, Grovit discloses a agent acting as a spoke in a hub and spoke integrating system and a server acting as a hub in another hub and spoke integrating system ([0114]-[0115], [0117]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Smith and Feldbaum as taught by Grovit in order to simplify the workflow and minimize timing issues in a business process integration by implementing hub and spoke architecture.

6. As to claim 18, Smith disclose a method for transmitting high-level data in real time to one or more enterprises (FIG. 4), the method comprising: receiving, from an application, a message comprising high level data (column 1, lines 23-31) and a request to process the data by a server, running (FIG. 4, FIG. 7, column 7, lines 5-40); converting the message into an MQ message using a message queuing protocol (Smith teaches of converting the message into an MQ message using a message queuing protocol in order to deliver the data as an MQ message to the queue, e.g., column 7, lines 5-26); encrypting the MQ message using a security protocol to provide a secure MQ message (column 10, lines 15-35 and column 7, lines 5-40); and transmitting the MQ message to a first queue manager for retransmission at a time when the network is suitable for transporting the message to the server (FIG. 4, column 7, lines 5-25, "....may also store the messages in a persistent state until they can be delivered successfully...").

Smith doesn't explicitly disclose that the queue manager receives encrypted data; an agent acting as a spoke in a hub and spoke integration system and the server acting as a hub in another hub and spoke integration system. However, Feldbaum discloses that the queue manager receives encrypted data (column 7, lines 10-31 and column 8, lines 29-60).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Smith as taught by Feldbaum

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in order to increase the confidentiality and integrity of data that transmit over the public network.

Though hub and spoke integration system architecture is well known in the art, neither Smith nor Feldbaum explicitly disclose the agent acting as a spoke in a hub and spoke integrating system and the server acting as a hub in another hub and spoke integrating system. However, Grovit discloses a agent acting as a spoke in a hub and spoke integrating system and a server acting as a hub in another hub and spoke integrating system ([0114]-[0115], [0117]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Smith and Feldbaum as taught by Grovit in order to simplify the workflow and minimize timing issues in a business process integration by implementing hub and spoke architecture.

- 7. As to claim 2, Smith discloses at least one firewall for coupling the output to a wide area network (column 10, lines 5-25, "Firewalls and other physical access restriction mechanisms may be used between networks and nodes..").
- 8. As to claim 19, Smith discloses wherein the high level data comprises customer information (column 1, lines 15-30).
- 9. As to claims 3 and 21, Smith discloses wherein the encryption engine comprises a secure sockets layer protocol (column 10, lines 15-25).

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- 10. As to claims 4 and 20, Smith discloses wherein the encryption engine comprises an HTTPS protocol (column 10, lines 5-25).
- 11. As to claim 22, Smith discloses wherein transmitting the MQ message further comprises a hypertext transfer protocol over a secure socket layer (column 10, lines 5-25).
- 12. Claims 5-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feldbaum and further in view of Smith and Grovit.
- 13. As to claim 5, Feldbaum discloses a method, comprising steps of: receiving data from a source application program (FIG. 3, column 5, lines 15-45, ".....the message queuing system allows an application on one machine to send a message to another application on a different machine in an asynchronous manner"); encoding the data according to a message queuing protocol to provide an MQ message (column 5, lines 38-60); encrypting the MQ message to provide an encrypted MQ message (column 7, lines 10-31, which describes MQ server sends the message with the digital signature); and transmitting the encrypted MQ message to a destination application program for processing of the data (FIG. 7, column 8, lines 29-60).

Feldbaum doesn't explicitly disclose for integrating applications hosted at different enterprises separated by at least one firewall; the agent acting as a spoke in a

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hub and spoke integrating system and the server acting as a hub in another hub and spoke integrating system. However, Smith discloses for integrating applications hosted at different enterprises separated by at least one firewall (column 10, lines 5-25, "Firewall and other physical access restriction mechanisms may be used between networks and nodes...").

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Feldbaum as taught by Smith in order to "ensure connection security at the endpoints (Smith, column 10, lines 21-25)." Furthermore, one would be motivated to do so to maintain the integrity of data that transmit over the public network.

Though hub and spoke integration system architecture is well known in the art, neither Feldbaum nor Smith explicitly disclose the agent acting as a spoke in a hub and spoke integrating system and the server acting as a hub in another hub and spoke integrating system. However, Grovit discloses a agent acting as a spoke in a hub and spoke integrating system and a server acting as a hub in another hub and spoke integrating system ([0114]-[0115], [0117]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Feldbaum and Smith as taught by Grovit in order to simplify the workflow and minimize timing issues in a business process integration by implementing hub and spoke architecture.

- 14. As to claim 11, it is rejected using the same rationale as for the rejection of claim 5.
- 15. As to claim 6, Feldbaum discloses the method of storing the encrypted MQ message in a queue manager prior to transmit the encrypted MQ message (column 5, lines 38-60, "The message to be delivered may be temporarily stored in an outgoing message queue...").
- 16. As to claim 12, it is rejected using the same rationale as for the rejection of claim 6.
- 17. As to claim 7, Feldbaum discloses further comprising sending a message to the source application program instructing the source application program to stop sending data (column 7, lines 5-25).
- 18. As to claim 13, it is rejected using the same rationale as for the rejection of claim 7.
- 19. As to claim 8, Feldbaum discloses the method further comprising maintaining a record of the messages received from the source application program (FIG. 3, column 5, lines 10-60).

- 20. As to claim 14, it is rejected using the same rationale as for the rejection of claim 8.
- 21. As to claim 9, Feldbaum discloses the method wherein the record of the messages received from the source application program comprises information on the number of messages received (FIG. 3, column 5, lines 10-60).
- 22. As to claim 15, it is rejected using the same rationale as for the rejection of claim 9.
- 23. As to claim 10, Feldbaum discloses the method wherein the record of the messages received from the source application program comprises information on the type of messages received (FIG. 3, column 5, lines 10-60, "...the MQ server maintains a plurality of message queues").
- 24. As to claim 16, it is rejected using the same rationale as for the rejection of claim 10.
- 25. As to claim 17, A remote agent acting as a spoke in a hub and spoke integration system, comprising: an input for receiving a message from a source application (FIG. 3, column 5, lines 15-45, ".....the message queuing system allows an application on one machine to send a message to another application on a different machine in an

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asynchronous manner"), the message comprising high level data (column 5, lines 35-45, which describes running a banking application data) and a request to process the data by a target application at a target server in a network (FIG. 3, FIG. 7, column 5, lines 5-60 and column 7, lines 10-30), and a first queue manager for receiving messages from the agent (FIG. 3, column 5, lines 10-60) and for transmitting the messages to the target server when the target server can receive the messages (FIG. 3, column 5, lines 10-60).

Feldbaum doesn't explicitly disclose the target server is located at another side of a firewall from the agent. However, Smith discloses the target server is located at another side of a firewall from the agent (column 10, lines 5-25).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Feldbaum as taught by Smith in order to "ensure connection security at the endpoints (Smith, column 10, lines 21-25)." Furthermore, one would be motivated to do so to maintain the integrity of data that transmit over the public network.

Though hub and spoke integration system architecture is well known in the art, neither Feldbaum nor Smith explicitly disclose the server acting as a hub in another hub and spoke integrating system. However, Grovit discloses a server acting as a hub in another hub and spoke integrating system ([0114]-[0115], [0117]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the teaching of Feldbaum and Smith as taught

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by Grovit in order to simplify the workflow and minimize timing issues in a business process integration by implementing hub and spoke architecture.

26. Examiner's note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may be applied as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

Response to Amendment

27. Applicant has amended claims 1, 5, 11 and 17-18, which necessitated new ground of rejections. See rejection above.

Conclusion

28. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suman Debnath whose telephone number is 571 270 1256. The examiner can normally be reached on 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on 571 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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